



Topics

- Corridor study presented March 27, 2017
- Preferred alternative
- Additional information obtained





- Study Commissioned by MDOT
- Partnership with the City
- Other Recent Studies
 - Main Street Streetscape Study (City of Midland)
 - Downtown Midland Study (Momentum Midland)
- US-10 BR through City of Midland
 - Washington Street to US-10 BR/US-10 Interchange





- Development of Project Goals
- Public Engagement
 - Steering Committee 8/30/16
 - Stakeholder Committee 12/2/15, 10/31/16
 - Public Information Meeting 12/14/16
- Traffic Analysis
 - Existing Conditions
 - No Build (2040)
 - Crashes
 - Transportation Improvement Alternatives Development & Analysis
 - Three alternatives
 - Comparison of Alternatives
 - Conversion to two-way traffic not feasible
- Selection of Preferred Alternative





- Developed based on Stakeholder input
 - 1. Accommodate the design year (2040) traffic volumes
 - Alleviate current and anticipated traffic congestion at intersections and along road segments
 - Enhance safety and reduce crashes for all modes of transportation
 - 4. Increase connectivity to Downtown Midland & Discovery Square
 - 5. Improve non-motorized mobility and eliminate barriers for bicyclist/pedestrians with minimal impacts to traffic flow
 - 6. Context Sensitive Design
 - 7. Support economic development within the corridor



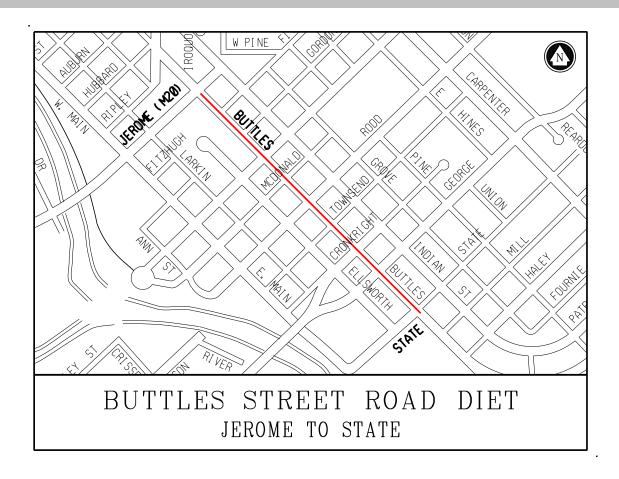


Focus on the Buttles Street from Jerome (M-20) to State Street

- Reduction in number of travel lanes
- Non-motorized zone Signal upgrades, retiming
- Sidewalk connections
- Access Management
- Connection to Downtown Midland











Alternative 1 - Road Diet









- Alternative 1 Road Diet
 - Provide acceptable levels of traffic operations
 - Traffic calming
 - Low cost
 - Promote future development in the corridor
 - Increase the connection between the downtown area and surrounding neighborhoods
 - Improve pedestrian experience by reducing the number of lanes required to cross Buttles
 - Provide a non-motorized zone, with various options





Non-Motorized Zone Options

BIKE LANE ALTERNATIVES

US-10 CORRIDOR PLAN MICHIGAN

BUFFERED BIKE LANE - PLANTED SEPARATOR



BUFFERED BIKE LANE - PHYSICAL SEPARATOR





Non-Motorized Zone Options

10 BIKE LANE ALTERNATIVES

US-10 CORRIDOR PLAN
MIDLAND, MICHIGAN

BUFFERED BIKE LANE - PAINTED SEPARATOR



BUFFERED BIKE LANE - PAINTED PAVEMENT





Additional information since presentation to Council in March

- Land use planning and community development considerations
- Two assessments of a lane reduction on Buttles Street
- Public Meeting held in September
- Representatives from the Michigan Department of Transportation are here to present the findings from the two assessments.





Land Use Planning and Community Development Considerations

- Master Plan Objectives
- Zoning Ordinance Downtown Northside Overlay Design regulations
- Neighborhood Context





- Two assessments of a lane reduction on Buttles Street
 - August
 - Data collected included volume and speed during peak travel time
 - November
 - Review for backup and delay at signalized intersections
- Public Meeting
 - Held in September to provide information from the first assessment and to gather additional public input on the road diet proposal





- Assessment 1 August 2017
 - Data collected for AM and PM peak travel times
 - AM Peak (lowest level of service observed for that time)

Time	85% Speed (mph)	Level of Service
6 am – 7 am	30	Α
7 am – 8 am	27	В
8 am – 9 am	28	В
9 am – 10 am	30	Α

 Observed Level of Service is in line with the Level of Service anticipated from the study model





- Assessment 1 August 2017
 - Data collected for AM and PM peak travel times
 - PM Peak (lowest level of service observed for that time)

Time	85% Speed (mph)	Level of Service
3 pm – 4 pm	29	В
4 pm – 5 pm	31	Α
5 pm – 6 pm	30	Α
7 pm – 8 pm	31	Α

 Observed Level of Service is in line with the Level of Service anticipated from the study model





- Assessment 2 November 2017
 - Data collected for backup and delay at signalized intersections
 - No delay was detected at the signalized intersections





- If City Council elects to pursue the preferred alternative, or road diet, MDOT has proposed to set up a long-term trial period.
- Long-term trial period, or pilot project includes delineation reducing the number of lanes to 2 between Jerome (M-20) and State Street
- Implementation of the road diet with monitoring of delay, backups and congestion
- Trial period to last approximately three years. Duration of the trial period is due to anticipated traffic pattern changes during the M-20 bridge reconstruction.





 Resolution before you supports the concept of converting the three-lane section of US-10BR, Buttles Street, to a two-lane section, with the additional lane area being used for future improvements to the non-motorized network.





End

